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VASTLY IMPORTANT IF REALLY TRUE

It is a wonderful story, one that goes deeper than ever before into the practical use of the mystery of electricity and one that will if expectations are fulfilled, be of immeasurable utility in diagnosis of bodily ailments that the London Medical Journal tells. In brief, it is that by utilizing the electricity of the body a diagram can be delineated by a needle on wax on the soft tissues that are beyond the X-ray to portray, and that from this diagram an accurate photograph can be made of any part of the interior of any of us. The scientific discovery is now on trial at one of the casualty clearing stations in France, and its inventor is a Scotchman, James Shearer, now a sergeant in the medical corps. It is perhaps needlessly added that he got his education in America.

In detail the Medical Journal's explanation, as cabled in summary to the New York times, is that the new discovery takes up the task of producing pictures of structures hidden far below the surface of the body just at the point where X-ray photography, dealing only with dense structures like bone or some foreign substance, ceases to perform it effectively.

By means of this discovery it is possible in broad daylight to obtain detailed pictures of any organ of the body, brain, liver, kidney or spleen, and to see at a glance by what gross lesions they are affected. Thus it is possible to see blood vessels in the brain, to observe a clot of blood in that organ, to detect abscesses in the liver, and wounds or cuts in any organ. In one case a concretion in the appendix was seen clearly when the picture was complete.

The miracle is achieved by utilizing the currents of electricity which the body is believed to generate. Two electrodes, each ending in a perforated zinc plate or zinc wire screen, are employed. These are connected with batteries in the ordinary way, but are not placed in contact with the patient's body. One screen stands on a pedestal in a vertical position near the patient. The other is hung horizontally at right angles to the first one. In this way an electrical field coming from the first screen is always at right angles to that of the second.

The patient is placed with the part to be examined quite close to the first screen and directly under, but at a distance from the second. The current is turned on. Then the third electrical element, the current from the patient's own organs, is released.

"The inventor," says the Journal, "believes the results are primarily due to the fact that the process interposes between two alternating electric fields of equal strength and at the precise point where they meet a third electric field, whose facultative potential force is thus released and can be converted into dynamic power."

The third field is made to operate a sensitive needle, which works upon a revolving cylinder carrying a waxed paper. The so-called hammer needle moves across the cylinder, tapping out little holes in the wax, and when later the wax is held up to the light a diagram is seen which "precisely resembles the outline of the living tissues, lying vertically below the second screen."

This diagram can be converted into an ordinary photograph by processes familiar in the applied arts. The actual finished photographs are remarkable and show blood vessels in the brain in detail, also wounds, but not the actual brain substance. In other words, differences such as diseased areas are shown.

The apparatus has to be specially timed for each organ. Thus the electrical force residing in the blood is very small, so when blood vessels are to be delineated the alternations must be very rapid. Contrariwise, since the electric force residing in the heart muscle is great, the alternations must be slow when the heart is to be delineated.

An advantage of this is that when blood or pus occurs in areas where it should not be it shows at once on the picture as a blur. It is not delineated, and so its presence is made evident.

The apparatus works as long as the body is alive and even until molecular death has occurred. After that it does not work.

What an age is it that we are living in!

SAVING THE WOUNDED.

One of the reasons why the European belligerents, especially the French, are able to keep on fighting with apparently unimpaired vigor when according to all expectations they should be already exhausted in man-power, is indicated in a little medical news item from London.

Dr. William O'Neil Sherman, chief surgeon of the United States Steel Corporation, has been in Europe for some time observing the work of the military hospitals. He gives an almost incredible report of the success attained by the army surgeons. They have had a difficult task, in addition to the vast numbers of wounded and the severity of the wounds, for all the wounds caused by shells, torpedoes and grenades are infected. It was currently accepted in the early months of the war that about 60 per cent of the wounded ultimately recovered sufficiently to rejoin their colors.

If that was true, the proportion must now be much greater.

Dr. Sherman, quotes one of the leading French surgeons as saying that he is now performing only one amputation where formerly twenty were necessary, and that where there were formerly ten deaths there is now only one. And this wonderful improvement salvaging the human wreckage of war is due very largely to the contribution made by Dr. Alexis Carrel, an American surgeon.

A census of the Hawaiian population reveals an admirably short name—doubtless the shortest to be found anywhere in continental or territorial United States. There is a citizen of Honolulu who bears the distinguished appellation of "Mr. I." That's all there is to it—just I. "Easy to spell," you say? Well, maybe. They say he pronounces it "E."

LOOKS LIKE WETS VENIZELOS AND HAVE WON IN LOYAL FORCES CALIFORNIA IN CLASH

SAN FRANCISCO, Nov. 7.—Franklyn K. Hyesburn, representing the dries, said the San Francisco and Oakland vote so far as counted, indicated the dries had reduced the opposition to prohibition in these cities by more than one-half. If the rest of the State maintained its prohibition lead of two years ago the wet vote here will be more than overcome. George M. McDowell executive manager of the United California Industries, at 11 o'clock tonight claimed prohibition amendment No. 2 by fair partial returns from 500 precincts in Northern California had been lost by a majority of approximately 100,000. He said the "vote on No. 2 is virtually the same as on No. 1." The latter provides complete prohibition.

FALERINA, Greece, Nov. 7.—Two soldiers were killed and five wounded in an encounter between the Venizelos forces, which occupied Katerina, and loyal troops. The Venizelos troops will be withdrawn in order to avoid further encounters, French forces have been detailed to take charge of the town.

Husband Missing Wife is Alarmed

According to newspaper accounts, the wife of A. J. Kincaid at Sacramento, Cal., is alarmed over her husband leaving her 20 minutes after their marriage on October 29, and it is presumed he has returned to Prescott or Jerome, from conversation he had with her, preceding their marriage, when he referred to both cities frequently. Kincaid stated also he had interests in mines, and produced shares of stock in several companies operating in Yavapai county. He had been acquainted with his bride only three days before their marriage, meeting her at the home of a married sister in the above city.

QUITS THE SERVICE

Tim Howes an employee of the quartermaster department of the United States army, stationed on the line at Laredo, Texas, arrived in the city a few days ago, leaving yesterday for the Verde valley, where he will follow ranching. "Life is slow in the military, and the impatient attitude of the soldier who is ready for something to drop, is causing many desertions as well as officers wearing a big scowl on their countenances," he informed friends.

NEW SCHOOL READY

White & Jett, who have the contract for constructing the new school house in Skull valley, stated yesterday the building was ready and would be turned over to the trustees in a few days. The structure was authorized by a bond election for \$2,500, and the proposition carried by a margin of only two votes.

GIVES GOOD REPORT

F. H. Kester is in the city from Copper Basin, where he is interested in mines near the Commercial, and gives a good report of conditions in that field. The most important movement is that of the Commercial, he says, in which a new line of operations is being crystallized by which very intensive exploration is to start immediately. The general situation also indicated lively doings in the future, and certain sales also would be closed up soon.

POCAHONTAS MAKES EXCELLENT SHOWING

(From Saturday's Daily.) W. H. Skinner, president of the Pocahontas Mining Company, which is operating near Mayer, was a brief visitor to the city yesterday, reporting a satisfactory condition from recent development, and ore conditions proving a surprise to what was anticipated when the company resumed a few months ago. The plan of development has been fully determined, and depth will be the objective, with ample finances in the treasury therefore. Mr. Skinner is conversant with mining, and has been identified with this proposition from its beginning. He is optimistic over the outlook.

PAINFULLY INJURED

(From Thursday's Daily.) While hunting quail Tuesday afternoon, a young man named Stiles of Glendale, who had been visiting with Prescott friends for the past ten days, fired a shot from the horse he was riding. The horse stamped and ran away, throwing the rider onto boulders, he sustaining several cuts to his thigh, face and head. The visitor returned home yesterday. With other youths Stiles was hunting on Lower Lynx creek, near the ranch of J. K. Hall.

MINE OPTION DEAL

(From Tuesday's Daily.) Alex Reimer, who is in the city from Black Canyon district, en route to Chico, Cal., his old home, stated yesterday that he had closed an option deal for his group of six claims, in which transaction a satisfactory first payment had been made. The parties taking over the property are from Victor, Colo., and are represented by L. T. Loomis, who will be in charge.

SNOW STORM IS RAGING IN PART OF COLORADO

DENVER, Nov. 7.—A heavy snow storm raged today over western and northern Colorado.

In the southeastern section, summer-like weather was reported. Reports from the western slope indicated the heaviest storm of the season. Montrose reported six inches of snowfall last night, with the storm continuing at 11 o'clock today.

Grand Junction last night reported a wind velocity of 52 miles an hour, which stripped the trees of remaining fruit.

Rain was reported at Delta last night, with clearing today. In Denver, a heavy snow storm, which began shortly after 8 o'clock this morning, continued at noon with indications of lasting all day.

Telephonic and telegraphic communication with the northwestern and southwestern portions of Colorado was badly crippled, many towns being cut off from communication with Denver.

EXCITEMENT IS TOO MUCH FOR CANDIDATE

LAKE CITY, Colo., Nov. 7.—Hugh McLeod, Republican candidate for assessor of Hinsdale county, died at his home two hours after voting.

Thrown From Horse; Is Badly Injured

While making an inspection of the range country north of Camp Verde a few days ago, Stewart Prince, son of a former attorney general of Texas met with an accident by his horse stumbling, when he was thrown against a boulder and had his shoulder fractured. He is being brought to Prescott and was expected to arrive last night. Mr. Prince was looking over the country with a view of becoming interested in the cattle business and was to take an option on certain range interests.

"NOBODY HOME"

John I. Kelly was an arrival Monday from his Keystone mining camp, near Jersey Lily, and reported that region as depopulated by miners coming to Prescott to vote. In a radius of four miles square there was not a single individual left. Mr. Kelly states the country is advancing, and engineers continue to make examinations.

CAME TO VOTE

Harris Foos, who has mining interests in Walnut Grove district, left yesterday in auto for Jerome, his former home, to visit with relatives and vote. He has made new locations, and is pleased with the showing made in a ten-foot shaft, six assays giving values of \$22 in gold from a 14-inch paystreak.

SMALL FIRE DAMAGE

PHILADELPHIA, Nov. 7.—The British steamer East Point arrived here today from London and reported that the fire in her No. 1 hold caused little damage to the ship and will not delay her loading for the return trip.

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BEST EATS in Prescott

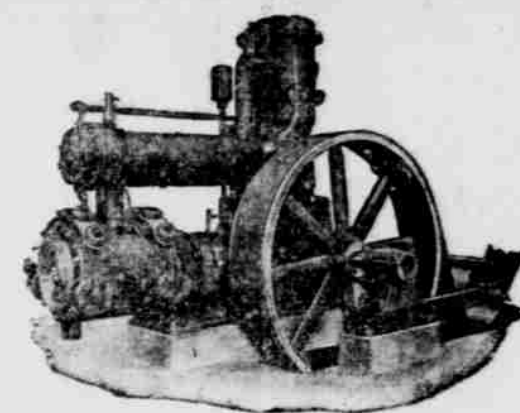
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